





BISPHOSPHONIC ACID DERIVATIVE AND ITS RADIOACTIVE ISOTOPE-LABELED PRODUCT

Patent number: JP2001114792
Publication date: 2001-04-24
Inventor: ITO OSAMU; KANEZASHI NOBUHIKO; MORISHITA AKI; HARA MASAMICHI; KANAGAWA MASARU; WATANABE YASUKO; ITAYA YOSHITOSHI
Applicant: NIHON MEDIPHYSICS CO LTD
Classification:
- **international:** C07F9/38; A61K31/663; A61K51/00; A61P19/08; C07B59/00; G01N33/50; C07F5/00
- **european:**
Application number: JP19990288952 19991012
Priority number(s): JP19990288952 19991012

Also published as:

 EP1092723 (A2)
 US6607710 (B1)
 EP1092723 (A3)
 CA2322936 (A1)

Report a data error here

Abstract of JP2001114792

PROBLEM TO BE SOLVED: To provide a bisphosphonic acid derivative and its radioactive isotope-labeled bisphosphonic acid derivative which are quickly accumulated in bones and rapidly excreted in urine. **SOLUTION:** The bisphosphonic acid derivative and its radioactive isotope-labeled bisphosphonic acid derivative which are represented by formula (1): R-Y-A, wherein A is a bisphosphonic acid having a P-C-P bond or its salt; R is the group of either of a polyaminopolycarboxylic acid of formula (2), an aliphatic carboxylic acid and a mercaptoacetylpolymino acid or their derivatives; X is a halogen atom or its isotope or an alkyl tin; Z is the group of either of an aminocarboxylic acid, an alkyl or substituted alkylcarboxylic acid, and an alkyl or substituted alkylsulfonic acid; Y is a bond portion such as a methylene bond or an amide bond.

Data supplied from the **esp@cenet** database - Worldwide